

Rayat Shikshan Sanstha's  
**Karmaveer Bhaurao Patil College, Vashi**  
 [Autonomous College]  
**Department of Microbiology**  
**Skill Based Course: Advance Instrumentation Training**  
 Course Beneficiary: M.Sc.II  
 Host Institute: Sasmira

Sr. No	INSTRUMENT NAME	Topic Covered		TIME
		Theory	Practical	
1	<b>Scanning Electron Microscope with the coating techniques</b>	1. Instrument Know how 2. Importance of Sample Preparation for Analysis 3. Sputter Coating 4. SEM sample analysis Demonstration 5. Post Run Analysis	Hands on sample preparation and sputter coating	7 Hrs.
2	<b>HP-TLC</b>	1. Instrument know how 2. Sample application techniques 3. Post run analysis	Hands on HP-TLC analysis	7 Hrs.
3	<b>GC-MS</b>	1. Introduction to GC 2. Introduction FID/MS 3. Introduction to Signal Quadrupole GC-MS 4. Introduction to Triple Quadrupole Cord GC-MS 5. Post run analysis	Hands on GC-MS analysis for detection of amines/phthalates	4 + 3 Hrs
4	<b>Particle Size Analyzer</b>	1. Instrument Know how 2. Importance of Sample preparation	Hands on Sample Analysis	3 Hrs
5.	<b>Introduction to Quality Management System</b>	1. Introduction to ISO 17025 (QMS) 2. Calibration and its importance 3. Validation and its importance 4. Documentation and its importance	Lab visit	7 Hrs.